

### Amendments of the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### Listing of Claims

1-32. (cancelled)

33. (previously presented) A method of communicating data of a known data type from a first process to a second process on a single processing system, the method comprising:

- 5                   defining a relationship between a second queue that is associated with the second process and at least one of the known data type and a first queue that is associated with the first process;
- receiving the data in the first format from the
- 10 first process;
- converting the data from the first format to a standard format;
- determining the second queue based upon the defined relationship after receiving the data in the first
- 15 format from the first process;
- routing the data in the standard format to the second queue;
- receiving the data routed in the standard format at the second queue; and
- 20                   routing the data in the second format to the second process.

34. (previously presented) A method of communicating data from a source process to a destination process, the method comprising:

- 5                   receiving the data in a source format from the source process;

converting the data from the source format to a first format;  
converting said data from the first format to a destination format;  
10 transmitting the data in the destination format to the destination process;  
generating an acknowledgment of receipt of the data when the data is received at the destination process; and  
notifying a user of an error upon an occurrence  
15 of at least one of a specified number of other transmission attempts and an absence of the acknowledgment of receipt within a given time period.

35. (previously presented) The method of claim 34, wherein the communication data is of a known data type.

36. (previously presented) The method of claim 34, further comprising:  
determining a destination address based upon a source address associated with the source process after  
5 receiving the data in the source format from the source process.

37. (currently amended) A ~~machine~~ computer readable medium encoded with ~~machine~~ computer readable instructions for performing a method of communicating data of a known data type from a source process to a destination process, said method  
5 comprising:

receiving said data in a source format from said source process;  
converting said data from said source format to a first format;  
10 determining a destination address that is associated with said destination process based upon at least one of said known data type and a source address that is associated with said source process;

converting said data in said first format to a  
15 destination format;  
transmitting said data in said destination  
format to said destination process;  
prior to said receiving of said data in said  
source format, defining at least one of said known data type,  
20 said source address, said source format, said first format,  
said destination format, and a relationship between said  
destination address and said at least one of said known data  
type and said source address, wherein said relationship is  
defined by accepting user input that defines said relationship  
25 between said destination address and said at least one of said  
known data type and said source address;  
said determining using said relationship in  
determining said destination address; and  
said relationship relating said destination  
30 address to both said known data type and said source address.

38. (currently amended) The ~~machine~~ computer  
readable medium of claim 37, said method further comprising:  
transmitting said data in said first format  
with said destination address;  
5 receiving said data transmitted in said first  
format at said destination address;  
generating an acknowledgment of receipt of said  
data when said data transmitted in said destination format is  
received at said destination process; and  
10 notifying a user of an error upon an occurrence  
of at least one of a specified number of other transmission  
attempts and an absence of said acknowledgment of receipt  
within a given time period.

39. (currently amended) The ~~machine~~ computer  
readable medium of claim 37, wherein each of said source  
format, said first format, and said destination format are  
different.

40. (currently amended) The ~~machine~~ computer  
readable medium of claim 37, wherein:

said source format and said destination format  
are identical; and

5       said source format and said destination format  
are different from said first format.

41. (currently amended) The ~~machine~~ computer  
readable medium of claim 37, wherein said defining comprises  
accepting user input that defines said source address of said  
source process.

42. (currently amended) The ~~machine~~ computer  
readable medium of claim 37, wherein said defining comprises  
accepting user input that defines said source format of said  
data.

43. (currently amended) The ~~machine~~ computer  
readable medium of claim 37, wherein said defining comprises  
accepting user input that defines said destination format of  
said data.

44. (currently amended) The ~~machine~~ computer  
readable medium of claim 37, wherein said converting of said  
data from said first format to said destination format  
comprises selecting said destination format from a plurality  
5   of available destination formats based upon said known data  
type of said data.

45. (currently amended) The ~~machine~~ computer  
readable medium of claim 37, wherein said converting of said  
data from said first format to said destination format  
comprises selecting said destination format from a plurality  
5   of available destination formats based upon said destination  
address transmitted with said data in said first format.

46. (currently amended) A ~~machine~~ computer readable medium encoded with ~~machine~~ computer readable instructions for performing a method of communicating data of a known data type from a source process to a destination process, said method comprising:

receiving said data in a source format from said source process;

converting said data from said source format to a first format;

determining a destination address that is associated with said destination process based upon at least one of said known data type and a source address that is associated with said source process;

transmitting said data in said first format with said destination address;

receiving said data transmitted in said first format at said destination address;

converting said data in said first format to a destination format;

transmitting said data in said destination format to said destination process;

prior to said receiving of said data in said source format, defining at least one of said known data type, said source address, said source format, said first format, said destination format, and a relationship between said destination address and said at least one of said known data type and said source address, wherein said relationship is defined by accepting user input that defines said relationship between said destination address and said at least one of said known data type and said source address;

said determining using said relationship in determining said destination address; and

said relationship relating said destination  
address to said source address without relating said  
35 destination address to said known data type.

47. (currently amended) A ~~maachine~~ computer readable  
medium encoded with ~~maachine~~ computer readable instructions for  
performing a method of communicating data of a known data type  
from a source process to a destination process, said method  
5 comprising:

receiving said data in a source format from  
said source process;  
converting said data from said source format to  
a first format;  
10 determining a destination address that is  
associated with said destination process based upon at least  
one of said known data type and a source address that is  
associated with said source process;  
transmitting said data in said first format  
15 with said destination address;  
receiving said data transmitted in said first  
format at said destination address;  
converting said data in said first format to a  
destination format;  
20 transmitting said data in said destination  
format to said destination process;  
prior to said receiving of said data in said  
source format, defining at least one of said known data type,  
said source address, said source format, said first format,  
25 said destination format, and a relationship between said  
destination address and said at least one of said known data  
type and said source address, wherein said relationship is  
defined by accepting user input that defines said relationship  
between said destination address and said at least one of said  
30 known data type and said source address;

said determining using said relationship in  
determining said destination address; and  
said relationship relating said destination  
address to said known data type without relating said  
35 destination address to said source address.

48. (previously presented) A system for  
communicating data of a known data type from a source process  
to a destination process, the system comprising:  
means for receiving said data in a source  
5 format from said source process;  
means for converting said data from said source  
format to a first format;  
means for determining a destination address  
that is associated with said destination process based upon at  
10 least one of said known data type and a source address that is  
associated with said source process;  
means for transmitting said data in said first  
format with said destination address;  
means for receiving said data transmitted in  
15 said first format at said destination address;  
means for converting said data in said first  
format to a destination format;  
means for transmitting said data in said  
destination format to said destination process;  
20 means for generating an acknowledgment of  
receipt of said data when said data transmitted by said  
destination transmitter is received at said destination  
process; and  
means for notifying a user of an error upon an  
25 occurrence of at least one of a specified number of other  
transmission attempts and an absence of said acknowledgment of  
receipt within a given time period.

49. (previously presented) The system of claim 48, wherein each of said source format, said first format, and said destination format are different.

50. (previously presented) The system of claim 48, wherein:

said source format and said destination format are identical; and

5 said source format and said destination format are different from said first format.

51. (previously presented) The system of claim 48, further comprising means for defining at least one of said known data type, said source address, said first format, said destination format, and a relationship between  
5 said destination address and said at least one of said known data type and said source address prior to said data in said source format being received by said source receiver.

52. (previously presented) The system of claim 51, wherein said means for defining at least one of known data type accepts user input that defines said known data type of said data.

53. (previously presented) The system of claim 51, wherein said means for defining at least one of known data type accepts user input that defines said source address of said source process.

54. (previously presented) The system of claim 51, wherein said means for defining at least one of known data type accepts user input that defines said source format of said data.

55. (previously presented) The system of claim 51, wherein said means for defining at least one of



known data type accepts user input that defines said first format of said data.

56. (previously presented) The system of claim 51, wherein said means for defining at least one of known data type accepts user input that defines said destination format of said data.

57. (previously presented) The system of claim 51, wherein said wherein said means for defining at least one of known data type accepts user input that defines said relationship between said destination address and said at  
5 least one of said known data type and said source address.

58. (previously presented) The system of claim 51, wherein:  
said addressing mechanism uses said  
relationship in determining said destination address; and  
5 said relationship relates said destination  
address to both said known data type and said source address.

59. (previously presented) The system of claim 51, wherein:  
said means for determining a destination  
address uses said relationship in determining said destination  
5 address; and  
said relationship relates said destination  
address to said source address without relating said  
destination address to said known data type.

60. (previously presented) The system of claim 51, wherein:  
said means for determining a destination  
address uses said relationship in determining said destination  
5 address; and

said relationship relates said destination address to said known data type without relating said destination address to said source address.

61. (previously presented) The system of claim 48, wherein said means for converting said data comprises means for selecting said destination format from a plurality of available destination formats based upon said  
5 known data type of said data.

62. (previously presented) The system of claim 48, wherein said means for converting said data comprises means for selecting said destination format from a plurality of available destination formats based upon said  
5 destination address transmitted with said data in said first format.

63. (currently amended) A ~~machine~~ computer readable medium encoded with ~~machine~~ computer readable instructions for performing a method of communicating data of a known data type from a source process to a destination process, said method  
5 comprising:

receiving said data in a source format from said source process;

converting said data from said source format to a first format;

10 determining a destination address that is associated with said destination process based upon at least one of said known data type and a source address that is associated with said source process;

transmitting said data in said first format  
15 with said destination address;

receiving said data transmitted in said first format at said destination address;

converting said data in said first format to a destination format;

20                   transmitting said data in said destination  
format to said destination process; and  
                    prior to said receiving of said data in said  
source format, defining at least one of said known data type,  
said source address, said source format, said first format,  
25   said destination format, and a relationship between said  
destination address and said at least one of said known data  
type and said source address,  
                    wherein said determining uses said relationship  
in determining said destination address, and said relationship  
30   relates said destination address to both said known data type  
and said source address.

64. (currently amended) The ~~machine~~ computer  
readable medium of claim 63, said method further comprising:  
                    when said data transmitted in said destination  
format is received at said destination process, generating an  
5   acknowledgment of receipt of said data; and  
                    notifying a user of an error upon an occurrence  
of at least one of a specified number of other transmission  
attempts and an absence of said acknowledgment of receipt  
within a given time period.

65. (currently amended) The ~~machine~~ computer  
readable medium of claim 63, wherein each of said source  
format, said first format, and said destination format are  
different.

66. (currently amended) The ~~machine~~ computer  
readable medium of claim 63, wherein:  
                    said source format and said destination format  
are identical; and  
5                   said source format and said destination format  
are different from said first format.

67. (currently amended) The ~~machine~~ computer readable medium of claim 63, wherein said defining comprises accepting user input that defines said known data type of said data.

68. (currently amended) The ~~machine~~ computer readable medium of claim 63, wherein said defining comprises accepting user input that defines said source address of said source process.

69. (currently amended) The ~~machine~~ computer readable medium of claim 63, wherein said defining comprises accepting user input that defines said source format of said data.

70. (currently amended) The ~~machine~~ computer readable medium claim 63, wherein said defining comprises accepting user input that defines said first format of said data.

71. (currently amended) The ~~machine~~ computer readable medium claim 63, wherein said defining comprises accepting user input that defines said destination format of said data.

72. (currently amended) The ~~machine~~ computer readable medium of claim 63, wherein said converting of said data from said first format to said destination format comprises selecting said destination format from a plurality  
5 of available destination formats based upon said known data type of said data.

73. (currently amended) The ~~machine~~ computer readable medium of claim 63, wherein said converting of said data from said first format to said destination format comprises selecting said destination format from a plurality

5 of available destination formats based upon said destination address transmitted with said data in said first format.

74. (currently amended) A ~~machine~~ computer readable medium encoded with ~~machine~~ computer readable instructions for performing a method of communicating data of a known data type from a source process to a destination process, said method  
5 comprising:

receiving said data in a source format from  
said source process;  
converting said data from said source format to  
a first format;  
10 determining a destination address that is  
associated with said destination process based upon at least  
one of said known data type and a source address that is  
associated with said source process;  
transmitting said data in said first format  
15 with said destination address;  
receiving said data transmitted in said first  
format at said destination address;  
converting said data in said first format to a  
destination format;  
20 transmitting said data in said destination  
format to said destination process; and  
prior to said receiving of said data in said  
source format, defining at least one of said known data type,  
said source address, said source format, said first format,  
25 said destination format, and a relationship between said  
destination address and said at least one of said known data  
type and said source address,  
wherein said determining uses said relationship  
in determining said destination address, and said relationship  
30 relates said destination address to said source address  
without relating said destination address to said known data  
type.

75. (currently amended) The ~~machine~~ computer readable medium of claim 74, said method further comprising:  
generating an acknowledgment of receipt of said data when said data transmitted in said destination format is  
5 received at said destination process; and  
notifying a user of an error upon an occurrence of at least one of a specified number of other transmission attempts and an absence of said acknowledgment of receipt within a given time period.

76. (currently amended) The ~~machine~~ computer readable medium of claim 74, wherein each of said source format, said first format, and said destination format are different.

77. (currently amended) The ~~machine~~ computer readable medium of claim 74, wherein:  
said source format and said destination format are identical; and  
5 said source format and said destination format are different from said first format.

78. (currently amended) The ~~machine~~ computer readable medium of claim 74, wherein said defining comprises accepting user input that defines said known data type of said data.

79. (currently amended) The ~~machine~~ computer readable medium of claim 74, wherein said defining comprises accepting user input that defines said source address of said source process.

80. (currently amended) The ~~machine~~ computer readable medium of claim 74, wherein said defining comprises accepting user input that defines said source format of said data.

81. (currently amended) The ~~machine~~ computer readable medium of claim 74, wherein said defining comprises accepting user input that defines said first format of said data.

82. (currently amended) The ~~machine~~ computer readable medium of claim 74, wherein said defining comprises accepting user input that defines said destination format of said data.

83. (currently amended) The ~~machine~~ computer readable medium of claim 74, wherein said converting of said data from said first format to said destination format comprises selecting said destination format from a plurality  
5 of available destination formats based upon said known data type of said data.

84. (currently amended) The ~~machine~~ computer readable medium of claim 74, wherein said converting of said data from said first format to said destination format comprises selecting said destination format from a plurality  
5 of available destination formats based upon said destination address transmitted with said data in said first format.

85. (currently amended) A ~~machine~~ computer readable medium encoded with ~~machine~~ computer readable instructions for performing a method of communicating data of a known data type from a source process to a destination process, said method  
5 comprising:

receiving said data in a source format from  
said source process;

converting said data from said source format to  
a first format;

10 determining a destination address that is  
associated with said destination process based upon at least

one of said known data type and a source address that is associated with said source process;  
transmitting said data in said first format  
15 with said destination address;  
receiving said data transmitted in said first format at said destination address;  
converting said data in said first format to a destination format;  
20 transmitting said data in said destination format to said destination process; and  
prior to said receiving of said data in said source format, defining at least one of said known data type, said source address, said source format, said first format,  
25 said destination format, and a relationship between said destination address and said at least one of said known data type and said source address,  
wherein said determining uses said relationship in determining said destination address, and said relationship  
30 relates said destination address to said known data type without relating said destination address to said source address.

86. (currently amended) The ~~machine~~ computer readable medium of claim 85, said method further comprising:  
when said data transmitted in said destination format is received at said destination process, generating an  
5 acknowledgment of receipt of said data; and  
notifying a user of an error upon an occurrence of at least one of a specified number of other transmission attempts and an absence of said acknowledgment of receipt within a given time period.

87. (currently amended) The ~~machine~~ computer readable medium of claim 85, wherein each of said source format, said first format, and said destination format are different.



88. (currently amended) The ~~machine~~ computer readable medium of claim 85, wherein:

said source format and said destination format are identical; and

5       said source format and said destination format are different from said first format.

89. (currently amended) The ~~machine~~ computer readable medium of claim 85, wherein said defining comprises accepting user input that defines said known data type of said data.

90. (currently amended) The ~~machine~~ computer readable medium of claim 85, wherein said defining comprises accepting user input that defines said source address of said source process.

91. (currently amended) The ~~machine~~ computer readable medium of claim 85, wherein said defining comprises accepting user input that defines said source format of said data.

92. (currently amended) The ~~machine~~ computer readable medium of claim 85, wherein said defining comprises accepting user input that defines said first format of said data.

93. (currently amended) The ~~machine~~ computer readable medium of claim 85, wherein said defining comprises accepting user input that defines said destination format of said data.

94. (currently amended) The ~~machine~~ computer readable medium of claim 85, wherein said converting of said data from said first format to said destination format comprises selecting said destination format from a plurality

5 of available destination formats based upon said known data type of said data.

95. (currently amended) The ~~machine~~ computer readable medium of claim 85, wherein said converting of said data from said first format to said destination format comprises selecting said destination format from a plurality  
5 of available destination formats based upon said destination address transmitted with said data in said first format.

96. (previously presented) A system for communicating data of a known data type from a source process to a destination process, the system comprising:  
means for receiving said data in a source  
5 format from said source process;  
means for converting said data from said source format to a first format;  
means for determining a destination address that is associated with said destination process based upon at  
10 least one of said known data type and a source address that is associated with said source process;  
means for transmitting said data in said first format with said destination address;  
means for receiving said data transmitted in  
15 said first format at said destination address;  
means for converting said data in said first format to a destination format;  
means for transmitting said data in said destination format to said destination process; and  
20 means for defining at least one of said known data type, said source address, said first format, said destination format, and a relationship between said destination address and said at least one of said known data type and said source address prior to said data in said source  
25 format being received by said source receiver.

97. (previously presented) The system of claim 96, further comprising:

means for generating an acknowledgment of receipt of said data when said data transmitted by said destination transmitter is received at said destination process; and

means for notifying a user of an error upon an occurrence of at least one of a specified number of other transmission attempts and an absence of said acknowledgment of receipt within a given time period.

98. (previously presented) The system of claim 96, wherein each of said source format, said first format, and said destination format are different.

99. (previously presented) The system of claim 96, wherein:

said source format and said destination format are identical; and

said source format and said destination format are different from said first format.

100. (previously presented) The system of claim 96, wherein said means for defining data accepts user input that defines said known data type of said data.

101. (previously presented) The system of claim 96, wherein said means for defining data accepts user input that defines said source address of said source process.

102. (previously presented) The system of claim 96, wherein said means for defining data accepts user input that defines said source format of said data.

103. (previously presented) The system of claim 96, wherein said means for defining data accepts user input that defines said first format of said data.

104. (previously presented) The system of claim 96, wherein said means for defining data accepts user input that defines said destination format of said data.

105. (previously presented) The system of claim 96, wherein said means for defining data accepts user input that defines said relationship between said destination address and said at least one of said known data type and said  
5 source address.

106. (previously presented) The system of claim 96, wherein:

said means for determining said destination address uses said relationship in determining said destination  
5 address; and

said relationship relates said destination address to both said known data type and said source address.

107. (previously presented) The system of claim 96, wherein:

said means for determining said destination address uses said relationship in determining said destination  
5 address; and

said relationship relates said destination address to said source address without relating said destination address to said known data type.

108. (previously presented) The system of claim 96, wherein:

said means for determining said destination address uses said relationship in determining said destination  
5 address; and

said relationship relates said destination address to said known data type without relating said destination address to said source address.

109. (previously presented) The system of claim 96, wherein said means for converting comprises a selecting mechanism that selects said destination format from a plurality of available destination formats based upon said  
5 known data type of said data.

110. (previously presented) The system of claim 96, wherein said means for converting comprises a selecting mechanism that selects said destination format from a plurality of available destination formats based upon said  
5 destination address transmitted with said data in said first format.

111. (currently amended) A ~~machine~~ computer readable medium encoded with ~~machine~~ computer readable instructions for performing a method of communicating data of a known data type from a source process to a destination process, said method  
5 comprising:

receiving the data in a source format from the source process;  
converting the data from the source format to a first format;  
10 transmitting the data in the first format to a destination address that is associated with the destination process;  
receiving the data transmitted in the first format at the destination address;  
15 converting said data from the first format to a destination format;  
transmitting the data in the destination format to the destination process;

generating an acknowledgment of receipt of the  
20 data when the data is received at the destination process;  
notifying a user of an error upon an occurrence  
of at least one of a specified number of other transmission  
attempts and an absence of the acknowledgment of receipt  
within a given time period;  
25 identifying the data type of the transmitted  
data after receiving the data in the source format from the  
source process; and  
determining the destination address based upon  
the identified data type of the transmitted data,  
30 wherein the communicated data is of a known  
data type.

112. (currently amended) A ~~machine~~ computer readable  
medium encoded with ~~machine~~ computer readable instructions for  
performing a method of communicating data of a known data type  
from a source process to a destination process, said method  
5 comprising:  
receiving the data in a source format from the  
source process;  
converting the data from the source format to a  
first format;  
10 transmitting the data in the first format to a  
destination address that is associated with the destination  
process;  
receiving the data transmitted in the first  
format at the destination address;  
15 converting said data from the first format to a  
destination format;  
transmitting the data in the destination format  
to the destination process;  
generating an acknowledgment of receipt of the  
20 data when the data is received at the destination process;

notifying a user of an error upon an occurrence of at least one of a specified number of other transmission attempts and an absence of the acknowledgment of receipt within a given time period;

25 identifying the data type of the transmitted data after receiving the data in the source format from the source process; and

determining the destination address based upon the identified data type of the transmitted data and a source

30 address associated with the source process,

wherein the communicated data is of a known data type.

113. (currently amended) A machine computer readable medium encoded with machine computer readable instructions for performing a method of communicating data of a known data type from a source process to a destination process, said method

5 comprising:

accepting user input that defines a relationship between a destination address that is associated with the destination process and at least one of the known data type and a source address that is associated with the

10 source process;

receiving the data in a source format from the source process;

converting the data from the source format to a first format;

15 determining the destination address based upon the defined relationship after receiving the data in the source format from the source process;

transmitting the data in the first format to the destination address;

20 receiving the data transmitted in the first format at the destination address;

converting the data in the first format to a destination format; and  
transmitting the data in the destination format  
25 to the destination process.

114. (currently amended) The ~~machine~~ computer readable medium of claim 113, said method further comprising:  
defining the known data type, the source address, the source format, the first format, and the  
5 destination format, prior to receiving the data in the source format.

115. (currently amended) The ~~machine~~ computer readable medium of claim 114, wherein the step of defining comprises accepting user input that defines the known data type, the source address, the source format, the first format,  
5 and the destination format.

116. (currently amended) The ~~machine~~ computer readable medium of claim 113, wherein the step of converting the data from the first format to the destination format comprises selecting the destination format from a plurality of  
5 available destination formats based solely upon the known data type.

117. (currently amended) The ~~machine~~ computer readable medium of claim 113, wherein:  
the data is transmitted in the first format with the destination address; and  
5 the step of converting the data from the first format to the destination format includes selecting the destination format from a plurality of available destination formats based upon the destination address transmitted with the data in the first format.

118. (currently amended) A ~~machine~~ computer readable medium encoded with ~~machine~~ computer readable instructions for



performing a method of communicating data from a source process to a destination, said method comprising:

5                   receiving the data in a source format from the source process;

                  converting the data from the source format to a first format;

                  transmitting the data in the first format to a destination address that is associated with the destination process;

10                   receiving the data transmitted in the first format at the destination address;

                  converting said data from the first format to a destination format;

15                   transmitting the data in the destination format to the destination process;

                  generating an acknowledgment of receipt of the data when the data is received at the destination process; and

20                   notifying a user of an error upon an occurrence of at least one of a specified number of other transmission attempts and an absence of the acknowledgment of receipt within a given time period.

119. (currently amended) The ~~machine~~ computer readable medium of claim 118, wherein the communication data is of a known data type.

120. (currently amended) The ~~machine~~ computer readable medium of claim 118, said method further comprising:

                  determining the destination address based upon a source address associated with the source process after

5                   receiving the data in the source format from the source process.

121. (previously presented) The method of claim 34, further comprising:

transmitting the data in the first format to a destination address that is associated with the destination  
5 process; and

receiving the data transmitted in the first format at the destination address.

122. (currently amended) The ~~machine~~ computer readable medium of claim 37, said method further comprising:

transmitting said data in said first format with said destination address;

5 receiving said data transmitted in said first format at said destination address.